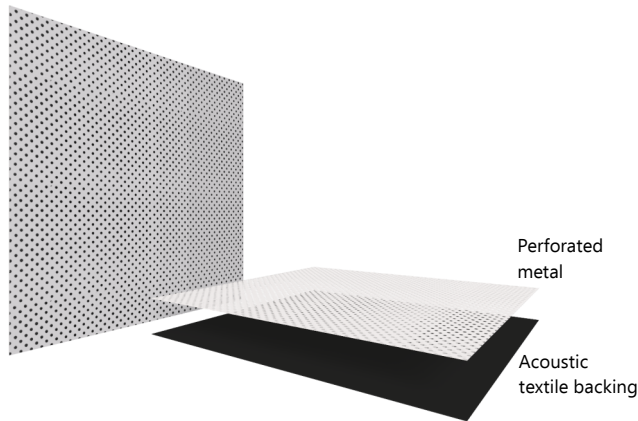




Advanced Perforated Metal Sound Absorber



Sorberscreen® is a perforated metal sheet sound absorber. The sheets are supplied either plain or backed with **Sorbertextile® ST**, a black, high air flow resistant glass based acoustic textile, that offers high performance sound absorption. The product has a hard durable finish with an aesthetic appeal.

The perforated metal screen is made from either marine grade 5052 aluminium sheet (**Sorberscreen ALU**) or electro-galvanised steel (**Sorberscreen EGS**) with 28% open area. This open area allows the sound waves to be passed through from the noise source and be absorbed by the backing fabric. Sound waves when travelling through the flow resistant backing fabric, creates heat through friction, causing a loss of energy, thus reducing noise and reflected sound. The sheets have a white powder coating, offering resistance to corrosion. The metal screen can be easily powder coated or spray painted to any colour desired, before being bonded with the backing fabric, **Sorbertextile ST**.

The degree of sound absorption obtained can easily be increased, by increasing the air gap behind the **Sorberscreen**. This cavity created, can be filled with any other insulation material to further enhance sound absorption. The backing material provides a protecting layer and prevents fibre release, if any, from such insulation materials.

Sorbertextile® ST is non combustible and has a hot melt reactive adhesive backing. Besides providing excellent mechanical strength, the fabric offers high opacity and an aesthetic appearance, making the product a perfect finish for sound absorption in engine rooms, soundproof enclosures, architectural walls and ceiling absorptive panel applications.

FEATURES

- Maximises noise control by providing superior air borne noise reduction
- Highly durable, offers high impact resistance
- Marine grade metal
- Can be supplied with **Sorbertextile® ST** backing
- Standard Colour - White (RAL 9010). Can be supplied plain or powder coated to any other colour on request
- Can be used in conjunction with other insulation materials like **Sorberpoly™**, **Sorbertextile®**, **Sorberfoam™**, **Sorberglass®** and **Sorberbarrier®** products to increase the acoustic performance
- Easy to clean, cut and install
- Easily cut and shaped using conventional metal working tooling
- Excellent performance between 630Hz to 2.5kHz 1/3rd octave bands
- Available in standard total thickness of 1.22mm Other thicknesses from 0.55 - 2.0mm on request
- Available in sheet sizes of 1.25m x 2.50m (Aluminium) and 2.44m X 1.22m (Electro-galvanised steel)

APPLICATIONS

- Decorative and durable protective engine room cover in marine, power generation and engine bays of large mobile equipment.
- Wall and ceiling insulation in marine engine rooms
- Lining of acoustic enclosures
- Acoustic baffles
- Interior decorative wall absorbers

PRODUCT SPECIFICATIONS

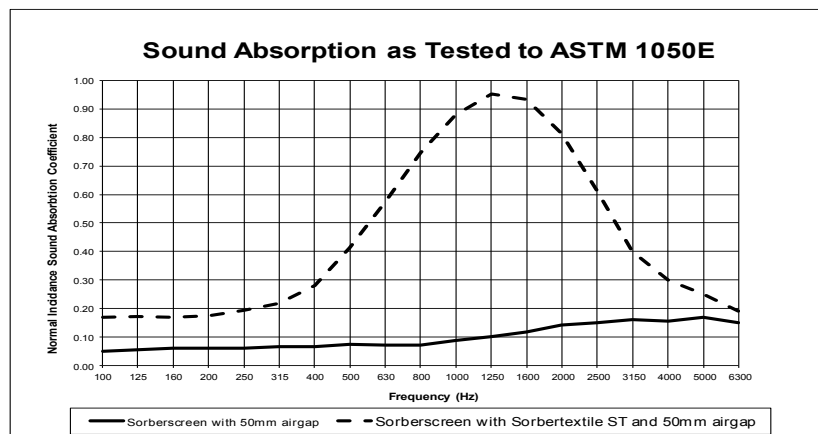
PRODUCT CODE	COATING/ COLOUR	THICKNESS OF PERFORATED METAL (mm)	THICKNESS OF BACKING (mm)	TOTAL THICKNESS (mm)	SHEET SIZE Length X Width (mm)
Sorberscreen ALU1000	Plain	1.00	No backing	1.00	2500 X 1250
Sorberscreen PC ALU1000	Powder coated / White (RAL 9010)	1.00	No backing	1.00	
Sorberscreen ALU1000ST	Plain	1.00	0.22	1.22	
Sorberscreen PC ALU1000ST	Powder coated / White (RAL 9010)	1.00	0.22	1.22	
Sorberscreen EGS 900	Plain	0.90	No backing	0.90	2440 X 1220
Sorberscreen PC EGS900	Powder coated / White (RAL 9010)	0.90	No backing	0.90	
Sorberscreen EGS900ST	Plain	0.90	0.22	1.12	
Sorberscreen PC EGS900ST	Powder Coated / White (RAL 9010)	0.90	0.22	1.12	

Tolerance: Thickness: +/- 0.1mm;

Please contact your local Pyrotek representative for other thicknesses and choice of colours.

ACOUSTIC PERFORMANCE

(Tested to ASTM 1050E)



Frequency (Hz)	Normal Sound Absorption Coefficient	
	Sorberscreen +50mm airgap	Sorberscreen + Sorbertextile ST + 50mm airgap
100	0.05	0.17
125	0.06	0.17
160	0.06	0.17
200	0.06	0.18
250	0.06	0.19
315	0.07	0.22
400	0.07	0.28
500	0.07	0.41
630	0.07	0.58
800	0.07	0.75
1000	0.09	0.88
1250	0.10	0.95
1600	0.12	0.93
2000	0.14	0.81
2500	0.15	0.61
3150	0.16	0.40
4000	0.16	0.30
5000	0.17	0.25
NRC (250-2000)	0.10	0.60

FLAMMABILITY PROPERTIES OF SORBERTEXTILE ST BACKING

TEST METHOD	INDEX	RESULTS	DESCRIPTION
IMO FTP 2010 (Resolution MSC.307 (88)) Annex 1 Part 5 (Report No. 324201)	CFE: Critical Flux at Extinguishment/ Qsb: Heat of sustained burning/ Qt: Total heat released/ Qp: Peak heat release rate	>50.5/>30.3/<0.03/0.2 Meets all low flame spread requirements for bulkhead, wall, ceiling & floor coverings	Surface flammability of bulkhead, wall, ceiling, floor covering.
BS 476 Part 6 (Report No. 163419)	Fire Propagation Index, I/Sub Index i1/ Sub Index i2/Sub Index i3	0.1/0.1/0.0/0.0	Fire Propagation for products.
BS476 Part 7 (Report No. 163422)	Class1/Class2/Class3	Class 1 Achieved 'Class 0' - the highest fire standard required by the British building code.	Lateral spread of flame test./Classification of the surface spread of flame.
FMVSS-302	Burn Rate - mm/min	Self Extinguishing	FMVSS-302 specifies burn resistance requirements of materials.

Caveats: Specifications are subject to change without notice. The data in this document are typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. The conclusions drawn from acoustic test results are as interpreted by qualified independent testing authorities. Nothing here releases the purchaser/user from responsibility to determine the suitability of the product for their project needs. Always seek the opinion of your acoustic or mechanical engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek NC is not responsible for differing outcomes from using their products. Pyrotek disclaims any liability for damages or consequential loss as a result of reliance solely on the information presented. No warranty is made that the use of this information or of the products, processes or equipment to which this Information Page refers will not infringe any third party's patents or rights. DISCLAIMER: This document is covered by Pyrotek standard Disclaimer, Warranty and © Copyright clauses. See www.pyroteknc.com/disclaimer.

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noise control